Cancel claims 4, 8-10, 14, and 17-22.

In claim 3, delete "any of claims 1-2" and insert therefor --claim 1--.

In claim 5, delete "any of claims 1-4" and insert therefor --claim 1--.

In claim 5, delete "consisting of" and insert therefor --comprising--.

In claim 6, delete "claims 1-5" and insert therefor --claim 5--.

In claim 7, delete "claim 1-6" and insert therefor --claim 6--.

11. (amended) An isolated DNA sequence of claim 23 having the nucleotide sequence [represented by the formula] shown in SEQ ID No. 6.

In claim 12, delete "any one of claims 8-11" and insert therefor --claim 23--.

13. (amended) The vector of claim 12[, wherein such vector] that is plasmid pBTac2go [pBTac2 containing the DNA sequence as claimed in any one of claims 8-11].

In claim 15, delete "claims 12-14" and insert therefor --claim 12--.

16. (amended) [A]The microbial host [according to]of claim [15]25 [wherein said host is from]that is E. coli LE 392 pUBS 520pBtac2go (DSM No. 11328).

Please add the following claims:

23.   An isolated DNA sequence encoding a purified thermostable DNA polymerase from Thermococcus gorgonarius, wherein said DNA polymerase is characterized in that it catalyses the template directed polymerisation of DNA, possesses 3′-5′-exonuclease (proofreading) activity, and exhibits at least a two-fold greater replication fidelity than DNA polymerase obtainable from Pyroccoccus furiosus.

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